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Département à
La Haye
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Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

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Anmelder/Applicant/Demandeur/Patentinhaber/Propriétaire/Titulaire

Japan Science and Technology Corporation

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	MALININ N L ET AL: "MAP3K-RELATED KINASE INVOLVED IN NF-KB INDUCTION BY TNF, CD95 AND IL-1" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 385, 6 February 1997 (1997-02-06), pages 540-544, XP002036441 ISSN: 0028-0836 * page 541, column 1, paragraph 7 * * page 544, column 1, paragraph 2 * * page 540, column 2, paragraph 1 *	1, 2, 4, 9	C12N15/54 C12N9/12 A61K31/70 A61K38/46
E	WO 00 08179 A (BIRD TIMOTHY A ;IMMUNEX CORP (US); VIRCA G DUKE (US)) 17 February 2000 (2000-02-17) *SEQ ID N°1 and N°2"	1-5, 9	
E	WO 00 39308 A (SAKAI YUTAKA ;GLAXO WELLCOME KABUSHIKI KAISH (JP); HASHIMOTO YASUH) 6 July 2000 (2000-07-06) *SEQ IDs N°1 and 2* * example 5 *	1-5, 9	
T	NOMURA FUMIKO ET AL: "NF-kappaB activation through IKK-i-dependent I-TRAF/TANK phosphorylation." GENES TO CELLS, vol. 5, no. 3, March 2000 (2000-03); pages 191-202, XP002215485 ISSN: 1356-9597		
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search MUNICH		Date of completion of the search 7 October 2002	Examiner Mabit, H
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1603 03.92 (P04C04)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	ROTHE M ET AL: "I-TRAF IS A NOVEL TRAF-INTERACTING PROTEIN THAT REGULATES TRAF-MEDIATED SIGNAL TRANSDUCTION" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 93, no. 16, 6 August 1996 (1996-08-06), pages 8241-8246, XP000608730 ✓ ISSN: 0027-8424 -----		
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search MUNICH		Date of completion of the search 7 October 2002	Examiner Mabit, H
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03.82 (P04C04)



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: partial claims 1-10

A human protein comprising an amino acid of SEQ ID N°2, the DNA of SEQ ID N°1 encoding said protein. Said protein (i) having the capability to activate NF-KB, (ii) displaying an activity of serine/threonine kinase and (iii) having the capability to bind I-traf and to phosphorylate I-traf. A pharmaceutical composition comprising said protein and the use of said protein in the manufacture of a medicament.

2. Claims: partial claims 1-10

A mouse protein comprising an amino acid sequence of SEQ ID N°4, the DNA of SEQ ID N°3 encoding said protein. Said protein (i) having the capability to activate NF-KB, (ii) displaying an activity of serine/threonine kinase and (iii) having the capability to bind I-traf and to phosphorylate I-traf. A pharmaceutical composition comprising said protein and the use of said protein in the manufacture of a medicament.



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☒ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 94 9429

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

07-10-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 0008179	A	17-02-2000	AU	5252799 A	28-02-2000
			AU	5333899 A	28-02-2000
			AU	5463999 A	28-02-2000
			CA	2305680 A1	17-02-2000
			EP	1019513 A1	19-07-2000
			EP	1027441 A2	16-08-2000
			EP	1025238 A2	09-08-2000
			JP	2002524046 T	06-08-2002
			JP	2002524047 T	06-08-2002
			WO	0008177 A2	17-02-2000
			WO	0008178 A2	17-02-2000
			WO	0008179 A1	17-02-2000
WO 0039308	A	06-07-2000	AU	1800700 A	31-07-2000
			EP	1141325 A1	10-10-2001
			WO	0039308 A1	06-07-2000